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IEEE JNL IEEE Journal or Magazine
IEEE JNL IEE Journal or Magazine
IEEE CNF IEEE Conference Proceeding
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IEEE STD IEEE Standard

- ☐ 1. **Bilingual Chinese/English voice browsing based on a VoiceXML platform**
Meng, H.; Yuk-Chi Li; Tien-Ying Fung; Kon-Fan Low; Ka-Fai Chow; Tin-Hang Lo; Man-Cheuk Ho; Ching, P.C.;
Acoustics, Speech, and Signal Processing, 2004. Proceedings. (ICASSP '04). IEEE International Conference on
Volume 3, 17-21 May 2004 Page(s):iii - 769-72 vol.3
Digital Object Identifier 10.1109/ICASSP.2004.1326658
[AbstractPlus](#) | Full Text: [PDF](#)(834 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 2. **History calls: delivering automated audio tours to visitors' cell phones**
Nickerson, M.;
Information Technology: Coding and Computing, 2005. ITCC 2005. International Conference on
Volume 2, 4-6 April 2005 Page(s):30 - 34 Vol. 2
Digital Object Identifier 10.1109/ITCC.2005.166
[AbstractPlus](#) | Full Text: [PDF](#)(80 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 3. **LRRP SpeechWebs**
Frost, R.; Abdullah, N.; Bhatia, K.; Chitte, S.; Hanna, F.; Roy, M.; Shi, Y.; Su, L.;
Communication Networks and Services Research, 2004. Proceedings. Second Annual Conference on
19-21 May 2004 Page(s):91 - 98
Digital Object Identifier 10.1109/DNSR.2004.1344716
[AbstractPlus](#) | Full Text: [PDF](#)(247 KB) IEEE CNF
[Rights and Permissions](#)
- ☐ 4. **SAMVAAD: speech applications made viable for access-anywhere devices**
Rajput, N.; Nanavati, A.A.; Kumar, M.; Kankar, P.; Dahiya, R.;
Wireless And Mobile Computing, Networking And Communications, 2005. (WiMob'2005). IEEE International Conference on
Volume 4, 22-24 Aug. 2005 Page(s):37 - 44 Vol. 4
Digital Object Identifier 10.1109/WIMOB.2005.1512947
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Stephen C. Arnold, Leo Mark, John Goldthwaite

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies Assets '00**

Publisher: ACM Press

Full text available: [pdf\(92.05 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** XML, computer programming, voice recognition2 [On site: A post-baccalaureate undergraduate-level program in computer science](#)

Shai Simonson

July 2002 **Communications of the ACM**, Volume 45 Issue 7

Publisher: ACM Press

Full text available: [pdf\(80.90 KB\)](#) [html\(20.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A one-year pilot education, tuition-free, that could be shared under an open-source license with the rest of the world.

3 [The <bigwig> project](#)

Claus Brabrand, Anders Møller, Michael I. Schwartzbach

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: [pdf\(586.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

Keywords: Interactive Web services, program analysis4 [An open architecture for next-generation telecommunication services](#)

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming



February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(237.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencies ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

5 A scalable formal method for design and automatic checking of user interfaces



Jean Berstel, Stefano Crespi Reghizzi, Gilles Roussel, Pierluigi San Pietro

April 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.74 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The article addresses the formal specification, design and implementation of the behavioral component of graphical user interfaces. The complex sequences of visual events and actions that constitute dialogs are specified by means of modular, communicating grammars called VEG (Visual Event Grammars), which extend traditional BNF grammars to make them more convenient to model dialogs. A VEG specification is independent of the actual layout of the GUI, but it can easily be integrated with various languages ...

Keywords: GUI design, Human-computer interaction (HCI), applications of model checking

6 Extending Java for high-level Web service construction



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: [pdf\(947.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

7 Adaptation to users: Interactive learning of structural shape descriptions from automatically generated near-miss examples



Tracy Hammond, Randall Davis

January 2006 **Proceedings of the 11th international conference on Intelligent user interfaces IUI '06**

Publisher: ACM PressFull text available:  [pdf\(438.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Sketch interfaces provide more natural interaction than the traditional mouse and palette tool, but can be time consuming to build if they have to be built anew for each new domain. A shape description language, such as the LADDER language we created, can significantly reduce the time necessary to create a sketch interface by enabling automatic generation of the interface from a domain description. However, structural shape descriptions, whether written by users or created automatically by the c ...

Keywords: active learning, ladder, near-miss, shape description, sketch recognition, structural description, user interfaces

8 Web site engineering: Staging transformations for multimodal web interaction management



Michael Narayan, Christopher Williams, Saverio Perugini, Naren Ramakrishnan
May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM PressFull text available:  [pdf\(2.76 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Multimodal interfaces are becoming increasingly ubiquitous with the advent of mobile devices, accessibility considerations, and novel software technologies that combine diverse interaction media. In addition to improving access and delivery capabilities, such interfaces enable flexible and personalized dialogs with websites, much like a conversation between humans. In this paper, we present a software framework for multimodal web interaction management that supports mixed-initiative dialogs betw ...

Keywords: mixed-initiative interaction, out-of-turn interaction, partial evaluation, program transformations, web dialogs

9 Automated systematic testing for constraint-based interactive services



Patrice Godefroid, Lalita J. Jagadeesan, Radha Jagadeesan, Konstantin Läufer
November 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th ACM SIGSOFT international symposium on Foundations of software engineering: twenty-first century applications SIGSOFT '00/FSE-8**, Volume 25 Issue 6

Publisher: ACM PressFull text available:  [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Constraint-based languages can express in a concise way the complex logic of a new generation of interactive services for applications such as banking or stock trading, that must support multiple types of interfaces for accessing the same data. These include automatic speech-recognition interfaces where inputs may be provided in any order by users of the service. We study in this paper how to systematically test event-driven applications developed using such languages. We show how such applic ...

Keywords: constraint-based languages, interactive services, model checking, state explosion, state-space reduction, testing, verification

10 Call for a public-domain SpeechWeb



Richard A. Frost
November 2005 **Communications of the ACM**, Volume 48 Issue 11

Publisher: ACM PressFull text available:  [pdf\(99.41 KB\)](#)  [html\(26.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

All that's missing is innovative use of existing technology and the encouragement of public participation.

11 Virtual pet: an exercise in XML & XSLT

Jeanine Meyer

May 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 5

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(197.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


EXtensible Markup Language (XML) and eXtensible Stylesheet Language: Transformations (XSLT) are tools for creating and maintaining content-rich applications, such as Web documents. A virtual pet is a computer representation of a [simple] model of pet behavior incorporating mechanisms for owner actions. Starting with a HTML/JavaScript virtual dog script, the author describes the use of eXtended Markup Language (XML) and eXtended Stylesheet Language: Transformations (XSLT) to produce a generalized ...

12 Toolkits: Revisiting visual interface programming: creating GUI tools for designers and programmers

Stéphane Chatty, Stéphane Sire, Jean-Luc Vinot, Patrick Lecoanet, Alexandre Lemort, Christophe Mertz

October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology UIST '04**

Publisher: ACM Press

Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Involving graphic designers in the large-scale development of user interfaces requires tools that provide more graphical flexibility and support efficient software processes. These requirements were analysed and used in the design of the TkZ-inc graphical library and the IntuiKit interface design environment. More flexibility is obtained through a wider palette of visual techniques and support for iterative construction of images, composition and parametric displays. More efficient processes ...

Keywords: GUI tools, SVG, model-driven architecture, software architecture, vector graphics, visual design

13 WHAT: an XSLT-based infrastructure for the integration of natural language processing components

Ulrich Schäfer

May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Software engineering and architecture of language technology systems - Volume 8 SEALTS '03**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(158.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The idea of the Whiteboard project is to integrate deep and shallow natural language processing components in order to benefit from their synergy. The project came up with the first fully integrated hybrid system consisting of a fast HPSG parser that utilizes tokenization, PoS, morphology, lexical, named entity, phrase chunk and (for German) topological sentence field analyses from shallow components. This integration increases robustness, directs the search space and hence reduces processing ti ...

14 Browsing: Building voiceXML browsers with openVXI

Brian Eberman, Jerry Carter, Darren Meyer, David Goddeau

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available:  [pdf\(209.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The OpenVXI is a portable open source based toolkit that interprets the VoiceXML dialog markup language. It is designed to serve as a framework for system integrators and

platform vendors who want to incorporate VoiceXML into their platform. A first version of the toolkit was released in the winter of 2001, with a second version released in September of 2001. A number of companies and individuals have adopted the toolkit for their platforms. In this paper we discuss the architecture of the toolk ...

Keywords: openVXI, voiceXML

15 VoiceXML for Web-based distributed conversational applications



Bruce Lucas

September 2000 **Communications of the ACM**, Volume 43 Issue 9

Publisher: ACM Press

Full text available: pdf(79.71 KB)

html(21.89 KB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

16 Mixed-initiative interaction = mixed computation



Naren Ramakrishnan, Robert G. Capra, Manuel A. Pérez-Quinones

January 2002 **ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation PEPM '02**, Volume 37 Issue 3

Publisher: ACM Press

Full text available: pdf(198.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We show that partial evaluation can be usefully viewed as a programming model for realizing mixed-initiative functionality in interactive applications. Mixed-initiative interaction between two participants is one where the parties can take turns at any time to change and steer the flow of interaction. We concentrate on the facet of mixed-initiative referred to as 'unsolicited reporting' and demonstrate how out-of-turn interactions by users can be modeled by 'jumping ahead' to nested dialogs (via ...

Keywords: Mixed-initiative interaction, VoiceXML, dialog management, interaction sequences, partial evaluation

17 Posters & demos: WebContext: remote access to shared context



Robert G. Capra, Manuel A. Pérez-Quinones, Naren Ramakrishnan

November 2001 **Proceedings of the 2001 workshop on Perceptive user interfaces PUI '01**

Publisher: ACM Press

Full text available: pdf(136.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we describe a system and architecture for building and remotely accessing shared context between a user and a computer. The system is designed to allow a user to browse web pages on a personal computer and then remotely make queries about information seen on the web pages using a telephone-based voice user interface.

Keywords: VoiceXML, information access, shared context, software architecture, telephone-based user interfaces, voice user interfaces

18 Component-based multimodal dialog interfaces for mobile knowledge creation



Georg Niklfeld, Robert Finan, Michael Pucher

July 2001 **Proceedings of the workshop on Human Language Technology and Knowledge Management - Volume 2001**

Publisher: Association for Computational Linguistics

Full text available: pdf(55.75 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper addresses two related topics: Firstly, it presents building-blocks for flexible

multimodal dialog interfaces based on standardized components (VoiceXML, XML) to indicate that thanks to well-supported standardizations, mobile multimodal interfaces to heterogeneous data sources are becoming ready for mass-market deployment, provided that adequate modularization is respected. Secondly, this is put in the perspective of a discussion of knowledge management in firms, and the paper argues t ...

19 WebViews: accessing personalized web content and services



Juliana Freire, Bharat Kumar, Daniel Lieuwen

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

Publisher: ACM Press

Full text available: [pdf\(305.83 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Web clipping, content transcoding, dynamic content, electronic commerce, information delivery, personalization, smart bookmarks, voice interfaces, wrappers

20 Web engineering meets natural language processing: a vocal interface generation practice



Hendrik Macedo, Jacques Robin, Roberto Barros

December 2005 **Proceedings of the 11th Brazilian Symposium on Multimedia and the web WebMedia '05**

Publisher: ACM Press

Full text available: [pdf\(132.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's trend towards ever more compact devices such as PDAs and mobile phones demands a more pervasive access manner. This paper describes an innovative mediator service architecture based on up-to-date web engineering standards to enable voice-based access to Web applications by means of voice portals and VoiceXML technologies. The core of the architecture is a Natural Language Generator that implements a pipeline of transformation rules. We show how Natural Language Generation technology can ...

Keywords: mediator service architecture, natural language generator, spoken dialogue-driven web

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Richard A. Frost

November 2005 **Communications of the ACM**, Volume 48 Issue 11

Publisher: ACM Press

Full text available: Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

All that's missing is innovative use of existing technology and the encouragement of public participation.

2 [VoiceXML for Web-based distributed conversational applications](#)

Bruce Lucas

September 2000 **Communications of the ACM**, Volume 43 Issue 9

Publisher: ACM Press

Full text available: Additional Information: [full citation](#), [citations](#), [index terms](#)3 [WebViews: accessing personalized web content and services](#)

Juliana Freire, Bharat Kumar, Daniel Lieuwen

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Publisher: ACM Press

Full text available: Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Web clipping, content transcoding, dynamic content, electronic commerce, information delivery, personalization, smart bookmarks, voice interfaces, wrappers

4 [Full papers: A visual programming environment for device independent generation of user interfaces](#)

Oscar Mayora-Ibarra, Oscar de la Paz-Arroyo, Edgar Cambranes-Martínez, Alejandro Fuentes-Penna

August 2003 **Proceedings of the Latin American conference on Human-computer interaction CLIHC '03**

Publisher: ACM Press

Full text available: Additional Information: [full citation](#), [abstract](#), [references](#)

The promise of information anytime, anywhere has become a reality. Today, it is possible

to access information through multiple kinds of devices. However, the design of user interfaces for such devices is restricted to the use of specific adhoc programming languages that may vary from one device to the other. In this sense, the existence of generic programming languages for creating device-independent user interfaces is becoming a strong necessity. One emerging approach to device independent dev ...

Keywords: J2ME, UIML, VXML, WML, XSLT, generic vocabulary, visual programming

5 Posters and demos: Improving non-visual web access using context



Jalal Mahmud, Yevgen Borodin, Dipanjan Das, I. V. Ramakrishnan
October 2006 **Proceedings of the 8th international ACM SIGACCESS conference on Computers and accessibility Assets '06**

Publisher: ACM Press

Full text available: [pdf\(146.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To browse the Web, blind people have to use screen readers, which process pages sequentially, making browsing timeconsuming. We present a prototype system, CSurf, which provides all features of a regular screen reader, but when a user follows a link, CSurf captures the context of the link and uses it to identify relevant information on the next page. CSurf rearranges the content of the next page, so, that the relevant information is read out first. A series experiments have been conducted to eva ...

Keywords: CSurf, assistive device, context, information rearrangement, non-visual, partitioning, screen-reader, user interface, voice browsing, web navigation

6 Papers: On the move: From desktop to phonetop: a UI for web interaction on very small devices



Jonathan Trevor, David M. Hilbert, Bill N. Schilit, Tzu Khiau Koh
November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**

Publisher: ACM Press

Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

While it is generally accepted that new Internet terminals should leverage the installed base of Web content and services, the differences between desktop computers and very small devices makes this challenging. Indeed, the browser interaction model has evolved on desktop computers having a unique combination of user interface (large display, keyboard, pointing device), hardware, and networking capabilities. In contrast, Internet enabled cell phones, typically with 3-10 lines of text, sacrifice ...

Keywords: PDA, Web browsing, transcoding, transducing, web phone, wireless web

7 Mixed-initiative interaction = mixed computation



Naren Ramakrishnan, Robert G. Capra, Manuel A. Pérez-Quinones
January 2002 **ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation PEPM '02**, Volume '37 Issue 3

Publisher: ACM Press

Full text available: [pdf\(198.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

We show that partial evaluation can be usefully viewed as a programming model for realizing mixed-initiative functionality in interactive applications. Mixed-initiative interaction between two participants is one where the parties can take turns at any time to change and steer the flow of interaction. We concentrate on the facet of mixed-initiative referred to as 'unsolicited reporting' and demonstrate how out-of-turn interactions by users can be modeled by 'jumping ahead' to nested dialogs (via ...

Keywords: Mixed-initiative interaction, VoiceXML, dialog management, interaction sequences, partial evaluation

8 Context-aware systems: GENIO: an ambient intelligence application in home automation and entertainment environment



Alfonso Gárate, Nati Herrasti, Antonio López

October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and technologies sOc-EUSAI '05**

Publisher: ACM Press

Full text available: [pdf\(125.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

As one of the main aims of "Ambient Intelligence" is natural human interaction with the environment and one the most suitable is the home environment. Fagor has been working several years to develop a power-line network where all its household appliances, security sensors and actuators, heating systems and anti-intrusion systems are connected and managed by a central controller named Maior-Domo. As a result of GENIO project, the user can dialog with his home and asks the services and functionalit ...

9 Software design, languages and systems: Generative approaches for application tailoring of mobile devices



Victoria Davis, Jeff Gray, Joel Jones

March 2005 **Proceedings of the 43rd annual southeast regional conference - Volume 2 ACM-SE 43**

Publisher: ACM Press

Full text available: [pdf\(526.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The popularity of mobile devices has propelled the development of many useful location-aware applications. However, the heterogeneity of mobile devices necessitates that the software be customized and tailored for each device. The research described in this paper demonstrates the possibilities of generative programming applied to application tailoring. This is done in order to assist in porting software to specific devices without manually rewriting code. The Java 2 Micro Edition (J2ME) is an in ...

10 Applications on the go: MediaAlert - a broadcast video monitoring and alerting system for mobile users



Bin Wei, Bernard Renger, Yih-Farn Chen, Rittwik Jana, Huale Huang, Lee Begeja, David Gibbon, Zhu Liu, Behzad Shahraray

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available: [pdf\(593.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present a system for automatic monitoring and timely dissemination of multimedia information to a range of mobile information appliances based on each user's interest profile. Multimedia processing algorithms detect and isolate relevant video segments from over twenty television broadcast programs based on a collection of words and phrases specified by the user. Content repurposing techniques are then used to convert the information into a form that is suitable for delivery to the user's mobile ...

Keywords: alerting, automatic speech recognition (ASR), content adaptation, content repurposing, mobile devices, multimedia messaging, multimedia processing, news monitoring, notification, service platform


11 Columns: Surfing the net for software engineering notes



Mark Doernhoefer

September 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.67 MB\)](#) Additional Information: [full citation](#)

12 Session 2: empirical studies: Looking for bugs in all the right places



Robert M. Bell, Thomas J. Ostrand, Elaine J. Weyuker

July 2006 **Proceedings of the 2006 international symposium on Software testing and analysis ISSTA '06**

Publisher: ACM Press

Full text available:  [pdf\(273.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We continue investigating the use of a negative binomial regression model to predict which files in a large industrial software system are most likely to contain many faults in the next release. A new empirical study is described whose subject is an automated voice response system. Not only is this system's functionality substantially different from that of the earlier systems we studied (an inventory system and a service provisioning system), it also uses a significantly different software development process.

Keywords: empirical study, fault-prone, prediction, regression model, software faults, software testing

13 Posters & demos: WebContext: remote access to shared context



Robert G. Capra, Manuel A. Pérez-Quinones, Naren Ramakrishnan

November 2001 **Proceedings of the 2001 workshop on Perceptive user interfaces PUI '01**

Publisher: ACM Press

Full text available:  [pdf\(136.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we describe a system and architecture for building and remotely accessing shared context between a user and a computer. The system is designed to allow a user to browse web pages on a personal computer and then remotely make queries about information seen on the web pages using a telephone-based voice user interface.

Keywords: VoiceXML, information access, shared context, software architecture, telephone-based user interfaces, voice user interfaces

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1 [Software design, languages and systems: Generative approaches for application tailoring of mobile devices](#)



Victoria Davis, Jeff Gray, Joel Jones

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Mark Doernhoefer

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3 [Mobile refinding of web information using a voice interface: an exploratory study](#)



Robert G. Capra, Manuel A. Pérez-Quinones

 October 2005 **Proceedings of the 2005 Latin American conference on Human-computer interaction CLIHC '05**

Publisher: ACM Press

Full text available: [pdf\(307.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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6 Integration and interoperation: Semantic description of 3D environments: a proposal based on web standards ☐



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Publisher: ACM Press

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8 Posters & demos: WebContext: remote access to shared context



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10 Context-aware systems: GENIO: an ambient intelligence application in home automation and entertainment environment



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11 Mixed-initiative interaction = mixed computation

Naren Ramakrishnan, Robert G. Capra, Manuel A. Pérez-Quinones

January 2002 **ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation PEPM '02**, Volume 37 Issue 3**Publisher:** ACM PressFull text available: [pdf\(198.73 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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12 Session 2: empirical studies: Looking for bugs in all the right places

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Mark Doernhoefer

September 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: [full citation](#)2 [Software design, languages and systems: Generative approaches for application tailoring of mobile devices](#)

Victoria Davis, Jeff Gray, Joel Jones

March 2005 **Proceedings of the 43rd annual southeast regional conference - Volume 2 ACM-SE 43**

Publisher: ACM Press

Full text available: pdf(526.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

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